2nd and Final Bill

M. A. R. 57 (Rule 116) No. E Est cost 1000-00 Lacs

Measurement Book

Serial No. Workarden on Sr BBMP/EE/YNK.D/EPMT-08/W.O/118/2021-22 585811

Name of work Restoration and improvements of Roads at Brundhavana layout, Balaji layout, Lakshmireddy, Reddel layout, Jyothinagar 2nd and 3rd phase, Ramanna Garden and Surroundings areas in Ward No-03 Yelahanka New town Sub division (PACKAGE-07)

Name of Contractor of nature of Agency Date Sr 17-02-2022 Balance

Date of commencement of work Layout, BTEL 1st phase and 2nd phase

Date	Full description, etc, of work	Dimensions Number	Length	Breadth	Depth	Contents	Reference to last Measurement 8
	① Earthwork excavation by manual means for Roads, Drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed. The dispersed earth to be levelled neatly after breaking of clods complete as per specification...						
	Qty :-		1389.49	@ 217.43		/cum =	302120.92

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(2)	providing and laying in position ready Plain Cement Concrete of mix 1:4:8 with OPC @ 180 kgs, with 40mm and down size graded metal coarse aggregates @ 0.8 Cum & fine aggregates @ 0.5 Cum Machine mixed labour HOM Curing Complete as per specifications						
		8	85.86			@ 5675.99/cum = 487340.32 Rs	
(3)	providing TMT Bars Fe 500 Steel Reinforcement for RCC Works including Straightening, cutting Bending, Hooking, placing in position, lapping and/or welding wherever required, tying with Binding wire & anchoring to the adjoining						

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(4)	Pr for OPC Con 0.8

M. A. R. 57 (Rule 116) No. E
Measurement Book 585845

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	members wherever necessary complete as per design (Taxes 2038272.00 Hooks)						
			25.18 @ 80948.07			Tonne =	2038470.81 Rs
(4)	providing and laying plain/Reinforcement Cement Concrete for side drains using M20 nominal mix concrete with OPC @ 300 kgs with 20mm and down size granite metal coarse aggregates at 0.63 cum & fine aggregates at 0.43 cum machine mixed flow & machinery curing & complete excluding cost of steel						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Specification						
	Qty:-		383.06			@ 7497.22/Cum	= 2871858.81
(5)	providing & fixing pre cast Covering Slab 100mm Thick made out of CC Jelly 20mm down size with Steel Reinforcement including Form work. Curing, including cost of all the Materials Labours hire charges & machinery. loading etc.						
	Qty:-		1028.70			@ 1941.22/Sqm	= 1996933.01 Rs.

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M. A. R. 57 (Rule 116) No. E
Measurement Book

585846

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(8)	providing & Fixing RCC pre cast Cover Slab @ 230mm Thick Fr drain in Cement Concrete 1:1.5:3 using graded granite Gelt 20mm & down Size with steel Reinforcement including form work Cost Charges. Curing and Concrete finished Surfaces on Both sides etc. Complete as per drawing & direction of Engg in Charge.						
	Qty :-	65.70	@ 4530.86/Sqm =				297677.50 Rs

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	providing & laying in position plain Cement Concrete of mix 1:2:4 with OPC @ 240 kgs with 20mm & down size graded granite metal Coarse aggregate @ 0.878 Cum fine aggregates @ 0.53 Cum. machine mixed. Concrete laid in layers not Exceeding 15cm Thick. well compacted in foundation. plinth cills, including Cost of all Materials. Labour. Hire curing as per specification....						
	Qty :-	57.71 / 57.04	@ 6089.85/cum			= 351469.34 Rs / 3,47,365-00	

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M. A. R. 57 (Rule 116) No. E 585347

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(10)	providing & fixing pre cast Solid Cement Concrete Kerb Stones made out of CC 1:2:4 with Top & Bottom width 114 & 165mm Respectively, 400mm high & 450mm length finished with CM 1:3 plastering & finishing cutting including formwork, curing including cost & materials. Loading unloading lead & cost transport etc.						
	Only	9624.00 / 9506.50	@ 436.80/no			= 4203809.40 Rs / 41,52,439.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	painting two coats after filling the surface with Synthetic enamel paint in approved shades on New plastered Concrete surfaces with materials Labours as per specifications.						
	Qty :- 908.58 @ 85.65/Sqm = 77818.06 Rs						
(12)	Excavation for Roadworks in soil with hydraulic excavator of 0.9 cum Bucket capacity including cutting & loading in tippers & trimming Button & Side slopes in accordance with Requirements of Lines. grades & cross section as per specifications.						
	Qty :- 5863.74 @ 64.58/Cum = 378676.68 Rs						

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(13)	Compac @ 8 to @ acc Labour
(15)	Constru base Crush mater

M. A. R. 57 (Rule 116) No. E

Measurement Book

585848

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Compaction of orginal ground with maximum of 6 passes @ 8 to 10 tonnes power rollers including filling in depressions occurring during rolling including cost of materials labours as per specification. Qty:- 14630.44 @ 6.42/Sqm = 93980.09 Rs						
(15)	Construction of Granular Sub-base Grading-V as Sub base & drainage layer by providing Coarse graded Crushed Stone aggregates of granite/trap/Basalt materials mixing in a mechanical plant @ OMC.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Spreading in Uniform layers with motor graders on prepared surfaces. achieve 98 %. proctor density. Complete as per specification						
	DAY 1	3001.88	@	2014.87	/cum	= 6048404.75 RS	
(16)	providing laying Spreading & Compacting crushed Stone aggregates of granite (trap) Basalt to wet mix macadum Specification including pre-mixing the material with water at one in mechanical mixplant carriage of mixed materials by tipper at site and Complete as per specification						
	DAY 2	2926.09	@	2021.29	/cum	= 5914480.61 RS	

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M. A. R. 57 (Rule 116) No. E 585849
Measurement Book

Serial No. .....
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Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(17)	providing & applying primer coat with S.S Bitumin Emulsion on prepared surface of Granular base Course 10mm including cleaning of Road surface & spraying. primer @ 0.60 l/sqm using Mechanical means...						
	Ostly	15515.37	@ 34.26/Sqm		=	531543.99 R	
(18)	providing & Laying Dense graded Bituminous macadam using Crushed aggregates & Specified grading						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Provided with VG-30 grade Bituminous Binder & Transporting the hot mix to work site laying to the required grade, Level and alignment rolling with smooth wheeled, vibratory & Tandem Rollers to achieve the desired Compaction clause 505 & with Mechanical paver Grt-II (50-75mm) with 40/60 TPH Capacity HMP mark V Revision using						
	4.5% VG-30 Bitumin.						
	Qty :- 775.77 @ 7365.73/Cum = 5714097.92						
(19)	providing & applying Tack Coat using 80/100 Grade Bitumin (VG10) on Preprepared Black Topper Surface						

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M. A. R. 57 (Rule 116) No. E
Measurement Book 585850

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	at 2.5 kg per 10 Sqm. heating with Spray set. including Cost of All. & Complete with as per specification. Qty :- 15515.37 @12.85/Sqm = 101370.64 Rs				Bitumin in Boiles fitted		
(20)	providing and laying Bituminous Concrete using crushed aggregates of Specified grading premixed with Bitumimous Binder and filler transporting the hot mix to work site. Laying with a paver finisher to the Required grade. level & alignment. Clause 507						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	@ MORTH using 40/60 TPH Capacity Mechanical Paver Gr-II with 5.4% VG-30 Bitumin						HMP with
	DAY'S	62061				@ 8534.82/cum	= 5296835.89
(21)	Road markings with Hot applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface / Concrete Surface providing & laying Hot applied Compound 2.5 mm Thick Including glass Beads 250 gms per Sqm area Complete as per the Specification.						
	DAY'S	683.74				@ 459.29/Sqm	= 314033.17 Rs

M. A. R. 57 (Rule 116) No. E 585851
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	EDRC Items.						
①	Excavation for roadworks in soil with Hydraulic Excavator of 0.9 cum Bucket Capacity including cutting & loading in tippers. trimming Bottom & side slopes. with requirement of Lines, grades &C/S & Transporting to the Embankment ~~Lead~~ Lead of 1km & Complete as per Specification.						
	DAY'S	1080.62	@ 63.94/cum =			69094.84	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(2)	providing & laying in position Plain Cement Conc. @ mix 1:4:8 with OPC @ 180 kgs with 40mm & dow Size graded granite metal Coarse aggregate @ 0.5 Cum & fine aggregates @ 0.5 Cum machine mixed. machine mixed. Concrete laid in layers not exceedi 15cms. Thick well compacted in foundation, includi cost of materials. complete as per specification @ Any 810.47 @ 5619.79 /cum = 4554643.0						
(3)	Cement Concrete pavement Construction @ un-Rein -forcement plain Cement Concrete pavement. Thick as per design. over a prepared surface Sub base						

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M. A. R. 57 (Rule 116) No. E 585352
Measurement Book

Serial No. .....
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Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	With 53 grade cement (or) any other type as per Clause 1501.2.2 of 30 (Grade) Coarse and fine aggregate Conforming to IS: 383 maximum size of Coarse aggregates not Exceeding 25mm. Concrete mixed in mechanical mixers of Capacity less than 0.2cum Construction Joint Primer Joint Sealant Curring of Concrete Slabs for 14 days & water Finishing to lines and & Grade as per drawing & Technical specifications with all lead & Lifts loading & unloading charges.						
	QTY	810.47	@	5325.64	/cum =		4316244.82 Rs

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4,60,03,189-00						46058863.04
	55,20,383-00			SUB Total :-			5527063.57
	5.15,23,572-00			Add 12% GST :-			51585926.61
				Grand Total :-			

Certificate :-

① Contractor has completed the works as per specification and its satisfactory

② certified that All the Debris have been cleared from the Site.. ✓

30/12/2022

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M. A. R. 57 (Rule 116) No. E

Measurement Book

585353

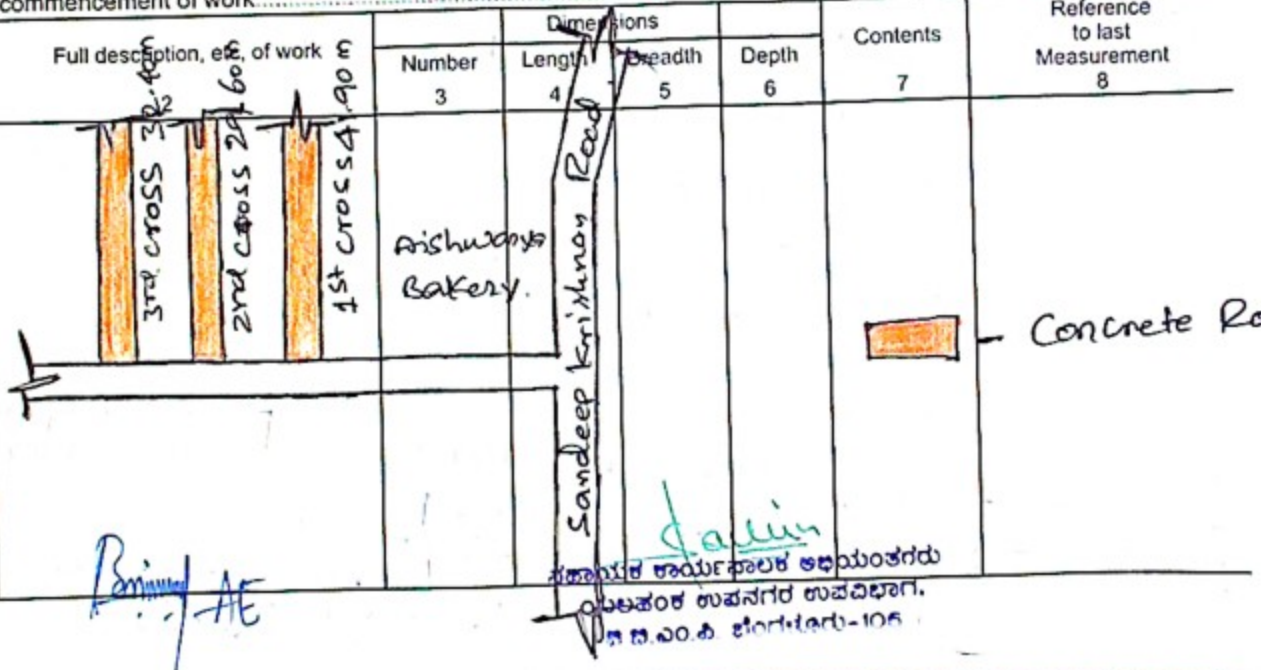
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc., of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1		3	4	5	6	7	8



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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

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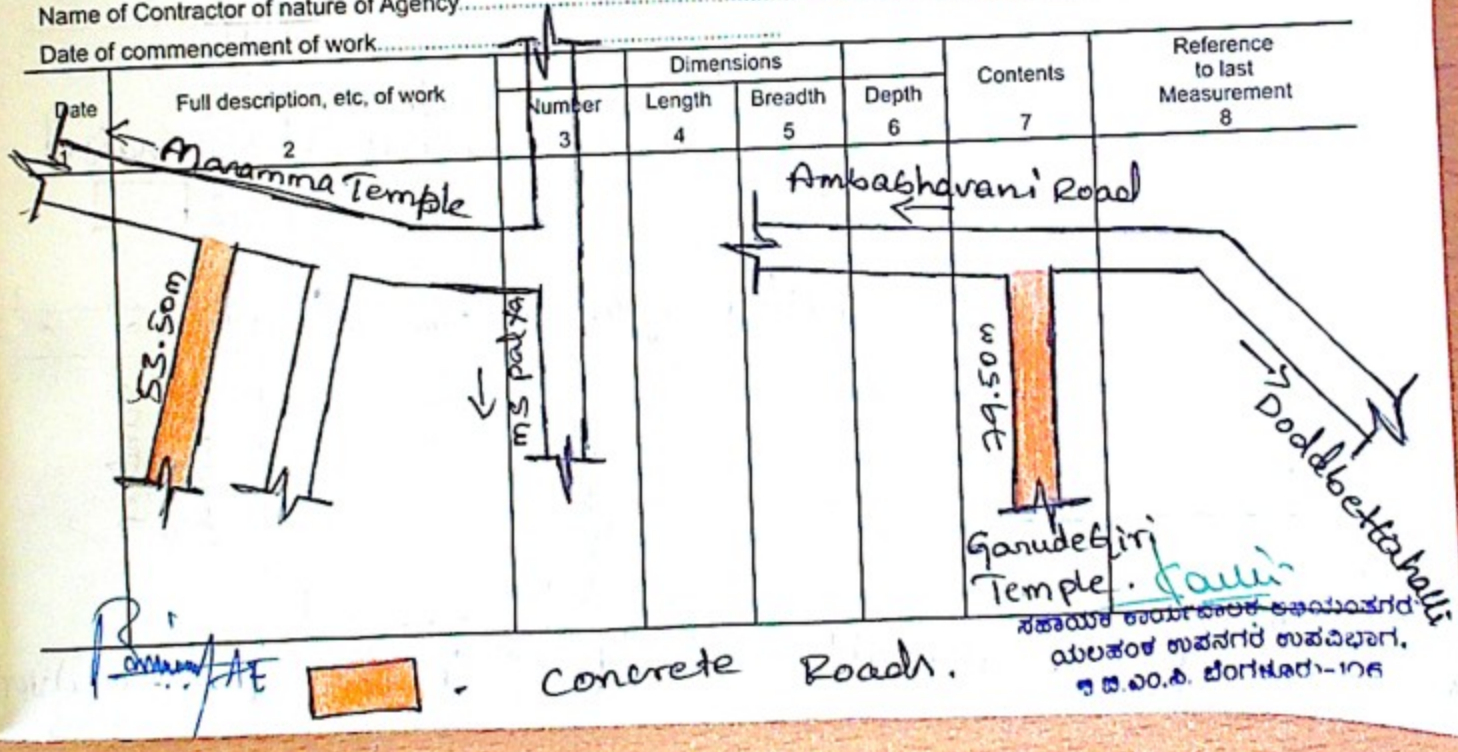
M. A. R. 57 (Rule 116) No. E
Measurement Book

585351

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8



AE . Concrete Roads.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಿ.ಎ.ಪ್ರ. ಬೆಂಗಳೂರು-೧೧೬

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

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M. A. R. 57 (Rule 116)
Measurement Book

No. E

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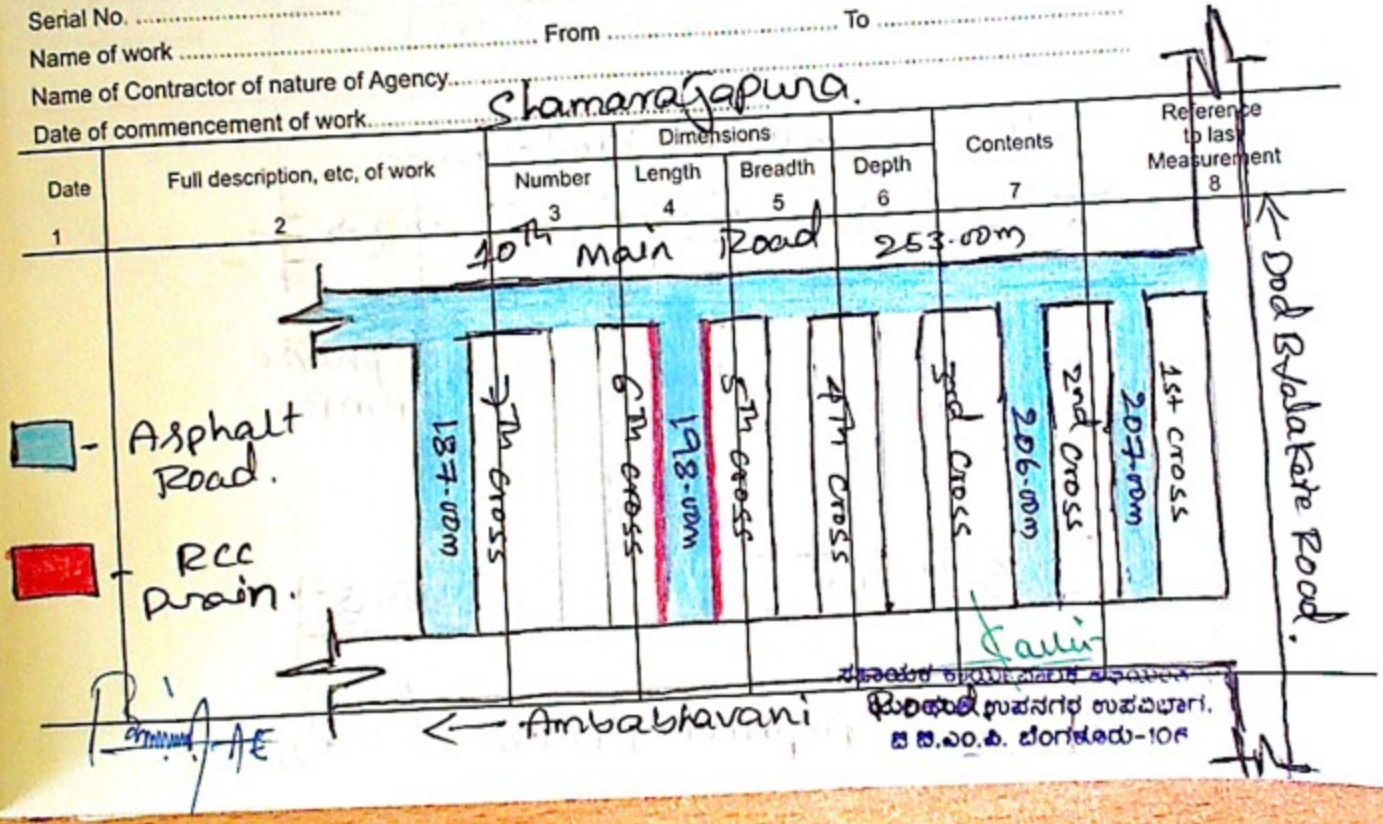
Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work..... Shamarajapura.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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ಬೆಂಗಳೂರು ಉಪನಗರ ಉಪವಿಭಾಗ,
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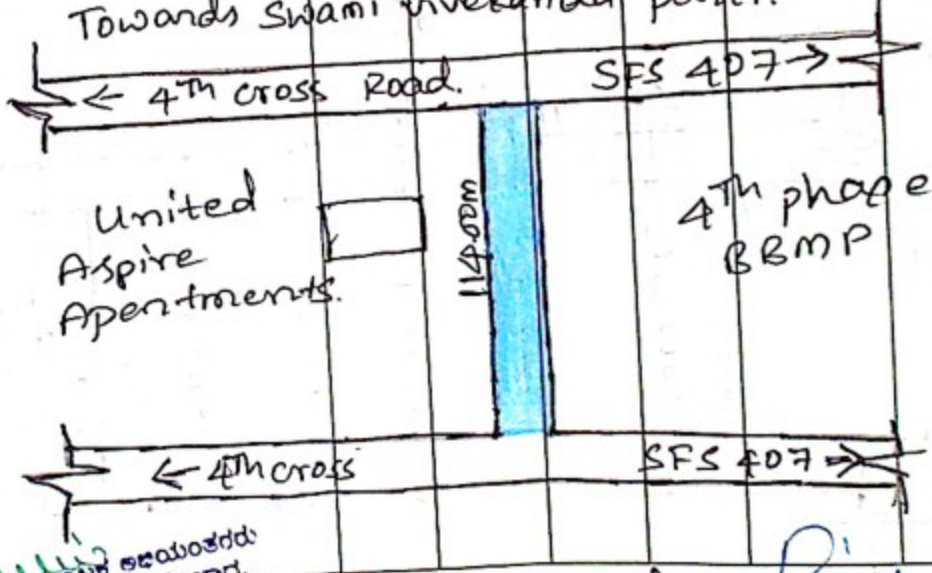
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



— Asphalt Roads.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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AE

2nd and Final bill

M. A. R. 57 (Rule 116) No. E 585356

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Mohan Kumar S.R

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Gross Amt =Rs 5,15,23,000=00					Job Code : 003-22-000013	
	FSD =Rs —					SBR NO: 102/22-23	
	CCST = Rs 460027=00					dt : 06/02/2023	
	DCCT = 460027=00						
	IT = 515230=00						
	LC = 51523=00						
	CBT =						
	Royalty = 15,35,000=00						
	T.D. = 35,37,037=00						
	Net Amt = 4,79,85,963=00						

Audited & Admitted for Rs. 5,15,23,000=00

4,79,85,963=00 By Cheque

and Rs 35,37,037=00 By Adjustment

Acctt. Supdt. 9/2/23.
Yelahanka Division
EBMP

Exe. Engineer
Yelahanka Division
BBMP